



Committed to providing innovative solutions
for material surface treatment.

NE-PE150X

POWDER-SPECIFIC PLASMA TREATMENT SYSTEM



Shenzhen Naen Tech Co., Ltd

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NE-PE150X PROFILE

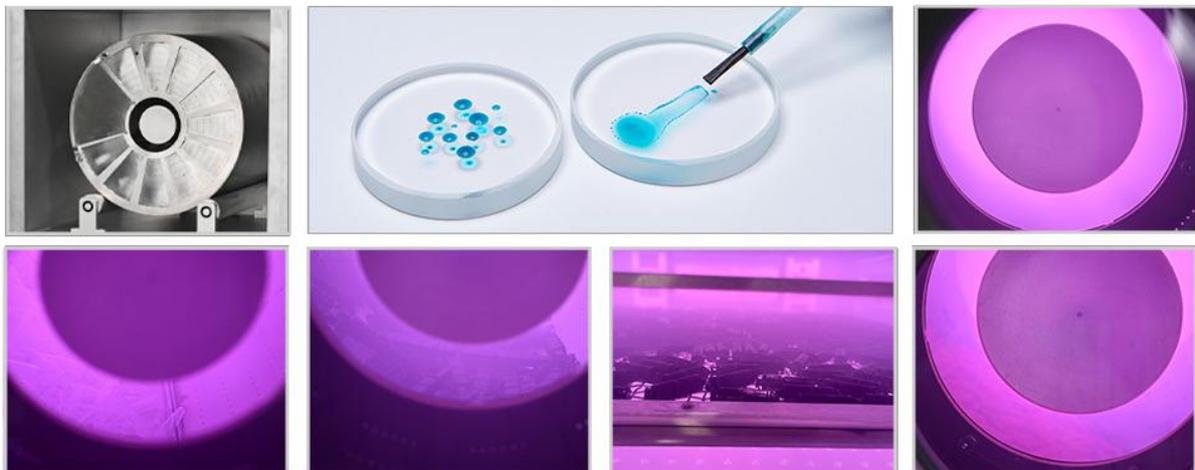
The **NE-PE150X** is designed for plasma treatment of small parts. With a drum - type structure, products are placed in the drum and then in the vacuum chamber. Drum rotation ensures all - around plasma contact for uniform treatment. An additional drum allows for loading during operation and quick replacement after each batch, boosting productivity.

Features:

- ◆ PLC with touch - screen control, safe and easy to operate.
- ◆ Aviation aluminum alloy vacuum chamber, military - grade welding for top - notch airtightness.
- ◆ Stores 100 recipes; just recall the number.
- ◆ Dynamic rotation ensures full - contact plasma treatment.
- ◆ Real - time monitoring of all parameters for easy maintenance.
- ◆ Two gas channels with precise flow control for gas ratio tests.
- ◆ Water - cooled electrode rod protects products from heat damage.
- ◆ Two drums for alternate use, greatly improving productivity.

Applications:

- ◆ Cleaning: Removes organics, oxides, salts, nanoparticles.
- ◆ Activation: Modifies hydrophilicity, raises surface energy, adds functional groups.
- ◆ Etching: Performs micro - etching, changes surface roughness.



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NE-PE150X SPECIFICATIONS

	STANDARD MODEL	OPTIONAL
Overall dimensions		
Size	1170mm(L)X1300mm(W)X1810mm(H)	
Weight	600KG(Including vacuum pump)	
Plasma generator		
Power	5000W(Adjustable)	
Frequency	40Khz	
Vacuum chamber		
Cavity material	Aviation-grade aluminum alloy	
Cavity size	W550×D600×H500mm; 165L	
Powder container	Φ400×450(D)mm; 18L	
Discharge electrode	Aluminum alloy special electrode	
Gas Control		
Gas flow controller	MFC	
Flow value	0-500 SCCM	Specified by customer
Gas channel	2 channels (supports various process gases, such as oxygen, argon, hydrogen, nitrogen, etc.)	3 & 4 & 5 & 6 channels
Vacuum measurement		
Vacuometer	Pirani; $5 \times 10^{-2} \sim 1.0 \times 10^5$ Pa	
Pumping system		
Pumping speed	Oil pump	Dry pump
Limiting vacuum	1PA	
Operating vacuum degree	10-50Pa	
Water chiller	Power:1PH 220v50HZ	
Control system		
Touch screen	10''	
PLC	Siemens	
Software	Plasma control system with independent patent: 3 - level permissions, auto/manual modes, recipe param setup/storage/call, alarm history query, IO monitoring.	
Real-time monitoring	Power, vacuum degree, air pressure, gas flow rate, working hours, etc.	
Alarm function	Vacuum anti-misoperation, power anti-misoperation, air pressure alarm, phase sequence alarm	
Condition		
Power Supply	AC380V,50/60Hz (Three-phase five little system,100A)	Specified by customer
Type of air pipe	Φ 6 mm	
Gas purity	99.999%	
Air pressure	0.4-0.6Mpa	
Exhaust port	KF40	



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ABOUT NAEN TECH

Naen Tech are an international leader in the design, development and manufacture of plasma surface treatment systems & advanced plasma processes.

Our products are installed worldwide and trusted to deliver consistent, reliable results in both leading research institutes and in critical manufacturing steps.

We are experts in plasma technology and surface science. We are trusted partners, valued for our courtesy, professionalism and dedication to delivering the correct solution for our clients.

OUR SERVICES

❖ **Contract plasma treatment**

We have more than 10,000 customer cases around the world, and we are equipped with technicians who can meet the plasma needs of various industries, and will provide a quick, no-nonsense feasibility solution for the surface treatment needs of different segments!

❖ **Surface testing laboratory**

With a comprehensive suite of surface analysis equipment, we are able to conduct a wide range of surface property tests, both before and after plasma treatment, in order to provide you a professional report with the whole pictures and videos.

❖ **After sales support**

The equipment is guaranteed for one year free of charge and provides lifetime technical services.

If the equipment fails (non-human damage), we will arrange after-sales personnel to follow up within 24 hours until the fault is eliminated.

❖ **Rental plasma systems**

We carry a wide range of our standard equipment in stock and available for short or long term hire. This is particularly useful for in-house proof of concept trials or to satisfy short term contract work.

❖ **Method development**

We have invested significantly in laboratory facilities to assess, test and investigate all aspects of plasma surface modification on a wide range of materials. Coupled with extensive in-house and real-world knowledge, we can usually deliver a tailored treatment quickly and efficiently to suit your individual product or production needs.



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